CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.11/TJ/CSR-06/054j/CEMENT/2016-17 Date: 03.06.2016

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer**, Vidyaranyapura Sub Division, BBMP, Bangalore.
*AGENCY	:	**Mr. T. Jayaprakash,** # 3471, 1st Main Road, 7th Cross, Gayathrinagara, Bangalore - 21.
*NAME OF THE WORK	:	Improvements to roads and drains at Singapura Village surrounding areas in Ward No. 11 (Kuvempunagara), Vidyaranyapura Sub Division, BBMP, Bangalore.
REFERENCE	:	AEE/BBMP/VSD/PR/ /2016-17 Dated: 01.06.2016
SAMPLE ID	:	Cement – Sample 1
SAMPLE RECEIVED ON	:	01.06.2016
PERIOD OF TESTING	:	01.06.2016 to 03.06.2016

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	28.00%	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	130 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	450 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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VISHWANATH .C
Quality Manager

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ಬೃ.ಬೆಂ.ಮ.ಪಾ., ಬೆಂಗಳೂರು-97

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Job No.: CTCE/BBMP/W.No.11/TJ/CSR-06/054j/SAND-Gradation/2016-17 : 03.06.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	: **Mr. T. Jayaprakash,** # 3471, 1st Main Road, 7th Cross, Gayathrinagara, Bangalore - 21.
* Name of Work	: Improvements to roads and drains at Singapura Village surrounding areas in Ward No. 11 (Kuvempunagara), Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: AEE/BBMP/VSD/PR/ /2016-17 Dated: 01.06.2016
Technical Reference	: IS : 2386 Part 1 - 1963 RA-2007
Sample ID	: Fine Aggregates - Sample 1
Sample Received on	: 01.06.2016
Date of Testing	: 03.06.2016

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	92.84	90-100	90-100	90-100	95-100
2.36	78.50	60-95	75-100	85-100	95-100
1.18	57.32	30-70	55-90	75-100	90-100
600 Micron	38.06	15-34	35-59	60-79	80-100
300 Micron	16.48	5-20	8-30	12-40	15-50
150 Micron	5.64	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

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Remarks : This sample is under Zone-II specific limits.

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Job No.: CTCE/BBMP/W.No.11/TJ/CSR-06/054j/AGG/GR/2016-17 : 03.06.2016

TEST REPORT ON COARSE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	: **Mr. T. Jayaprakash,** # 3471, 1st Main Road, 7th Cross, Gayathrinagara, Bangalore - 21.
* Name of Work	: Improvements to roads and drains at Singapura Village surrounding areas in Ward No. 11 (Kuvempunagara), Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: AEE/BBMP/VSD/PR/ /2016-17 Dated: 01.06.2016
Technical Reference	: IS : 2386 Part 1 -1963 RA-2007
Sample ID	: Coarse Aggregates (40mm) - Sample 1
Sample Received on	: 01.06.2016
Date of Testing	: 03.06.2016

Total Wt. of Aggregates in gms= **7000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.41	95-100	85-100
20	36.19	30-70	0-20
10	15.83	10-35	0-5
4.75	3.06	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/W.No.11/TJ/STEEL/2016-17 10.06.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	:	**Mr. T. Jayaprakash,** # 3471, 1st Main Road, 7th Cross, Gayathrinagara, Bangalore - 21.
Name of the Work	:	Improvements to roads and drains at Singapura Village surrounding areas in Ward No. 11 (Kuvempunagara), Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	:	AEE/BBMP/VSD/PR/ /2016-17 Dated: 01.06.2016
Date of Test	:	10.06.2016
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	10	0.62	514	557	13.30	O.K	O.K

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Job No.: CTCE/BBMP/W.No.11/TJ/STEEL/2016-17 10.06.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	:	**Mr. T. Jayaprakash,** # 3471, 1st Main Road, 7th Cross, Gayathrinagara, Bangalore - 21.
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Reference	:	AEE/BBMP/VSD/PR/ /2016-17 Dated: 01.06.2016
Date of Test	:	10.06.2016
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	16	1.59	519	563	13.60	O.K	O.K

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T-2377

Job No.: CTCE/BBMP/W.No.11/TJ/CSR-06/054j/CUBE/2016-17 11.07.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	: **Mr. T. Jayaprakash,** # 3471, 1st Main Road, 7th Cross, Gayathrinagara, Bangalore - 21.
* Name of the work	: Improvements to roads and drains at Singapura Village surrounding areas in Ward No. 11 (Kuvempunagara), Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: AEE/BBMP/VSD/PR/ /2016-17 Dated: 01.06.2016
* Sample ID	: Culvert Deck Slab Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 11.07.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.06.2016	11.07.2016	8.169	502.6	22.34
2	13.06.2016	11.07.2016	8.321	486.8	21.63
3	13.06.2016	11.07.2016	8.236	506.5	22.51

* Information is furnished by the Customer/Representative

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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Reference	: AEE/BBMP/VSD/PR/ /2016-17 Dated: 01.06.2016
* Sample ID	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 20.07.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.06.2016	20.07.2016	8.426	502.6	22.34
2	22.06.2016	20.07.2016	8.156	486.6	21.62
3	22.06.2016	20.07.2016	8.324	516.7	22.96

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* Sample ID	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 20.07.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.06.2016	20.07.2016	8.426	506.9	22.53
2	22.06.2016	20.07.2016	8.456	489.8	21.77
3	22.06.2016	20.07.2016	8.123	516.8	22.97

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Reference	: AEE/BBMP/VSD/PR/ /2016-17 Dated: 01.06.2016
* Sample ID	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 21.07.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.06.2016	21.07.2016	8.169	502.6	22.34
2	23.06.2016	21.07.2016	8.369	486.8	21.63
3	23.06.2016	21.07.2016	8.427	506.5	22.51

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* Sample ID	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 21.07.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.06.2016	21.07.2016	8.215	478.9	21.28
2	23.06.2016	21.07.2016	8.326	489.6	21.76
3	23.06.2016	21.07.2016	8.287	501.7	22.30

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Job No.: CTCE/BBMP/W.No.11/TJ/CSR-06/054j/CUBE/2016-17 22.07.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	: **Mr. T. Jayaprakash,** # 3471, 1st Main Road, 7th Cross, Gayathrinagara, Bangalore - 21.
* Name of the work	: Improvements to roads and drains at Singapura Village surrounding areas in Ward No. 11 (Kuvempunagara), Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: AEE/BBMP/VSD/PR/ /2016-17 Dated: 01.06.2016
* Sample ID	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 22.07.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.06.2016	22.07.2016	8.193	477.2	21.21
2	24.06.2016	22.07.2016	8.312	515.7	22.92
3	24.06.2016	22.07.2016	8.274	494.5	21.98

* Information is furnished by the Customer/Representative

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VISHWANATH .C
Quality Manager

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CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.11/TJ/CSR-06/054j/CUBE/2016-17 22.07.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	: **Mr. T. Jayaprakash,** # 3471, 1st Main Road, 7th Cross, Gayathrinagara, Bangalore - 21.
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Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 22.07.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.06.2016	22.07.2016	8.427	489.3	21.75
2	24.06.2016	22.07.2016	8.353	477.8	21.24
3	24.06.2016	22.07.2016	8.218	471.7	20.96

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* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 23.07.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.06.2016	23.07.2016	8.237	471.6	20.96
2	25.06.2016	23.07.2016	8.365	503.2	22.36
3	25.06.2016	23.07.2016	8.219	489.7	21.76

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Compressive Strength as on	: 28^{th} day
Sample Received on	: 23.07.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.06.2016	23.07.2016	8.235	492.5	21.89
2	25.06.2016	23.07.2016	8.267	496.7	22.08
3	25.06.2016	23.07.2016	8.319	499.8	22.21

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